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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/811,493	03/24/2004	B. John Oommen	BKCS 21.078 8900 (331443-00004		
26304 KATTEN MU	7590 02/20/2007 CHIN ROSENMAN LLP	EXAMINER GERGISO, TECHANE			
575 MADISON	N AVENUE				
NEW YORK,	NY 10022-2585		ART UNIT	PAPER NUMBER	
			2137		
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	. DELIVERY MODE		
31 E	DAYS	02/20/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	-		Applicatio	n No.		Applicant(s)	
Office Action Summary			10/811,493	3	1	OOMMEN ET AL.	
			Examiner	·	./	Art Unit	
			Techane J.	Gergiso	7-6	2137	
Period for I		ATE of this communication a	ppears on the	cover she	et with the c	orrespondence add	ress
WHICH - Extension after SIX - If NO pe - Failure to Any repl	EVER IS LONG ons of time may be an (6) MONTHS from the priod for reply is spec- to reply within the set by received by the Off	FUTORY PERIOD FOR REF GER, FROM THE MAILING vailable under the provisions of 37 CFR the mailing date of this communication. ified above, the maximum statutory perior or extended period for reply will, by stat fice later than three months after the maint. See 37 CFR 1.704(b).	DATE OF THI 1.136(a). In no ever od will apply and will ute, cause the applic	IS COMM nt, however, m expire SIX (6) cation to become	UNICATION hay a reply be time MONTHS from the me ABANDONE	I. lely filed the mailing date of this com (35 U.S.C. § 133).	,
Status							
1)⊠ R	esponsive to c	ommunication(s) filed on 05	June 2006.				
· <u>· · · · · · · · · · · · · · · · · · </u>	his action is FI	· ·	nis action is no	n-final.			
3)∐ Si	ince this applic	cation is in condition for allow	ance except f	or formal	matters, pro	secution as to the i	merits is
cl	osed in accord	lance with the practice unde	r Ex parte Qua	ayle, 1935	C.D. 11, 45	53 O.G. 213.	
Disposition	n of Claims	,					
4)∏ C	laim(s)	is/are pending in the applica	tion.				
• —		claim(s) is/are withd		sideration) .		
	laim(s)						
,	, ,	is/are rejected.		•			
·		is/are objected to.					
8)⊠ C	laim(s) <u>1-47</u> ar	e subject to restriction and/c	or election requ	uirement.			
Application	n Papers	•					
• •	-	is objected to by the Exami	ner				
,	•	iled on is/are: a) ☐ a		ີ obiecte	d to by the E	Examiner.	
• —	• • •	t request that any objection to the	•	=	=		
		wing sheet(s) including the corr					R 1.121(d).
		aration is objected to by the					
Priority und	der 35 U.S.C.	§ 119	•				
12)∏ Ac	knowledamen	t is made of a claim for forei	an priority und	er 35 U.S	.C. § 119(a)	-(d) or (f).	•
		ne * c)☐ None of:	. , ,		• • • • • • • • • • • • • • • • • • • •	, , , ,	
• ===		copies of the priority docume	ents have beer	received			
2.	. Certified	copies of the priority docume	ents have beer	received	in Application	on No	
3.	. Copies of	the certified copies of the pr	riority docume	nts have t	een receive	ed in this National S	Stage
	applicatio	n from the International Bure	eau (PCT Rule	17.2(a)).			
* See	e the attached	detailed Office action for a li	st of the certifi	ied copies	not receive	ed.	
Attachment(s	s)						
	of References Cite				view Summary		
3) Informa		Patent Drawing Review (PTO-948) atement(s) (PTO/SB/08)		Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:			

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
- 2. This application contains claims directed to the following patentably distinct species:

Species I, first embodiment, according to Figure 3-6, drawn to a D_S_H_E_{m, 2} (The Deterministic Embodiment Using Static Huffman Coding) process to encode an input data sequence and to decode a data sequence encoded. The input to the process is a Static Huffman Tree, T, a source sequence, X, and an output sequence, Y. Claims 1, and 27 appear to be grouped in Species I.

Species II, second embodiment, according to Figure 9-12, drawn to a D_A_H_E_m, 2 (*The Deterministic Embodiment Using Adaptive Huffman Coding*) process to encode an input data sequence and to decode a data sequence encoded. The input to the process is an initial Adaptive Huffman Tree, T, and a source sequence, X and an output sequence, Y with an assumption that there is a hashing function which locates a position of an input alphabet symbols as leaves in T. Claims 2, 4 and 28 appear to be grouped in Species II.

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Species III, third embodiment, according to Figure 14-15 and 17-18, drawn to an RV_A_H_D_m, 2 Randomized Fixed (The Randomized Embodiments Using Adaptive Huffman Coding) process to encode an input data sequence and to decode a data sequence encoded. The input to the process is an initial Huffman Tree, T, and a source sequence, X and an output sequence, Y with an assumption that there is a hashing function which locates a position of an input alphabet symbols as leaves in T Claims 3, 5 and 29 appear to be grouped in Species III.

Species IV, fourth embodiment, according to Figure 14-15 and 17-18, drawn to an RV_A_H_D_m, 2 Randomized Variable (The Randomized Embodiments Using Adaptive Huffman Coding) process to encode an input data sequence and to decode a data sequence encoded. The input to the process is an initial Huffman Tree, T, and a source sequence, X and an output sequence, Y with an assumption that there is a hashing function which locates a position of an input alphabet symbols as leaves in T Claims 37 and 39 appear to be grouped in Species IV.

The species are independent or distinct because each species require separate search independent one from the other.

3. Applicants are required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

4. Applicants are advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

5. Applicants are advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicants traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

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6. Applicants are reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Contact Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Techane J. Gergiso whose telephone number is (571) 272-3784 and fax number is (571) 273-3784. The examiner can normally be reached on 9:00am - 6:00pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Techane Gergiso

Patent Examiner

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February 14, 2007

EMMANUEL L. MOISE
SUPERVISORY PATENT EXAMINER